SIEMENS

Data sheet 3RQ1200-2EB00



force-guided coupling relay in industrial enclosure 1 NO contact / 1 NC contact (24 V) 24 V DC SIL 3 / PL e spring-loaded terminal (push-in)

product brand name	SIRIUS
product designation	force-guided coupling relay
design of the product	fail-safe up to SIL 3/PL e
product type designation	3RQ1
General technical data	OT Q
consumed active power	0.9 W
insulation voltage for overvoltage category III according to IEC	300 V
60664 with degree of pollution 3 rated value	300 V
degree of pollution	3
surge voltage resistance rated value	4 kV
protection class IP	IP20
shock resistance	
• according to IEC 60068-2-27	11g / 15 ms
vibration resistance	
according to IEC 60068-2-6	10 55 Hz: 0.35 mm
operating frequency maximum	360 1/h
switching behavior	monostable
mechanical service life (operating cycles) typical	10 000 000
thermal current of the switching element with contacts maximum	5 A
reference code according to IEC 81346-2	K
Substance Prohibitance (Date)	05/31/2018
Product Function	
suitability for operation device connector 3ZY12	Yes
Control circuit/ Control	
control supply voltage 1	
at DC rated value	24 V
• at DC	24 24 V
operating range factor control supply voltage rated value at DC	
• initial value	0.8
full-scale value	1.2
ON-delay time	
at AC maximum	15 ms
at DC maximum	15 ms
OFF-delay time	35 ms
design of the relay operating mechanism	poled
product component plug-in socket	No
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	NO: fuse gL/gG: 6 A; NC: fuse gL/gG: 4 A

Auxiliary circuit	
material of switching contacts	AgNi + Au flash
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
type of voltage	DC
ampacity of the output relay at AC-15	
• at 250 V at 50/60 Hz	2 A
ampacity of the output relay at DC-13	
• at 24 V	2 A
• at 125 V	0.2 A
• at 250 V	0.1 A
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	ambience A (industrial sector)
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (line to ground)
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV (line to line)
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharging, 8 kV air discharging
Safety related data	
Safety Integrity Level (SIL) according to IEC 61508	3
SIL Claim Limit (subsystem) according to EN 62061	3
performance level (PL) according to EN ISO 13849-1	е
PFHD	
 with high demand rate according to IEC 61508 	5E-10 1/h
with low demand rate according to IEC 61508	8E-7 1/h
hardware fault tolerance according to IEC 61508	1
-1	IEC 60947 1 / IEC 61000 6 2 / IEC 61000 6 4
electromagnetic compatibility	IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
Connections/ Terminals	Yes
Connections/ Terminals product component removable terminal for auxiliary and	
Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection wire length at DC maximum	Yes
Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection wire length at DC maximum type of connectable conductor cross-sections	Yes spring-loaded terminal (push-in) 2 000 m
Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection wire length at DC maximum type of connectable conductor cross-sections • solid	Yes spring-loaded terminal (push-in) 2 000 m 0.5 4 mm²
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Certificates/ approvals

General Product Approval



Confirmation









EMC

Declaration of Conformity

Marine / Shipping

other









Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ1200-2EB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ1200-2EB00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

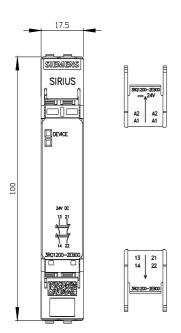
https://support.industry.siemens.com/cs/ww/en/ps/3RQ1200-2EB00

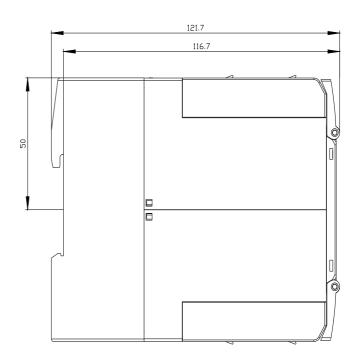
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

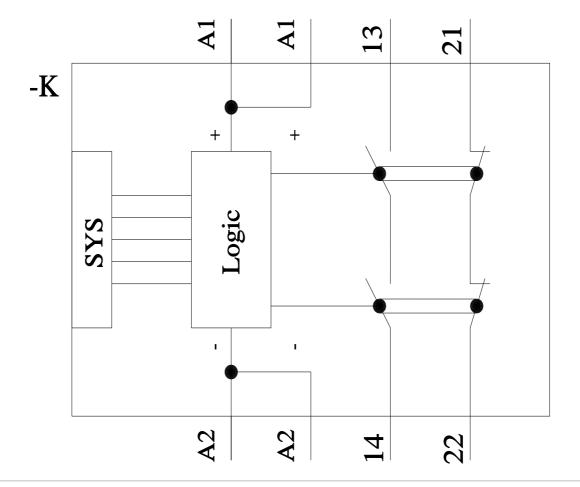
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ1200-2EB00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ1200-2EB00/manual







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